

CLAIMS

We claim:

- 1 1. An apparatus for cutting of a longitudinal member run external to a
2 tubular conduit in a well bore, said apparatus comprising:
3 a cutter body attachable to a tubular conduit in a fixed longitudinal position
4 relative to said tubular conduit;
5 a cutter knife slidably mounted to said cutter body, said cutter knife being
6 adapted to fasten to a longitudinal member external to said tubular
7 conduit, in a fixed longitudinal position relative to said external
8 longitudinal member; and
9 a surface on said cutter body oriented to slidingly abut said cutter knife and to
10 force said cutter knife through said external longitudinal member upon
11 lifting of said cutter body relative to said cutter knife.
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1 2. The apparatus recited in claim 1, further comprising a plurality of said
2 cutter knives located on opposing sides of said external longitudinal member.
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1 3. The apparatus recited in claim 1, further comprising a passage through
2 said cutter body located to position said external longitudinal member adjacent a
3 cutting edge of said cutter knife.
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1 4. The apparatus recited in claim 3, further comprising at least one said
2 passage through said cutter body located to position a plurality of said external
3 longitudinal members adjacent a cutting edge of said cutter knife.

1 5. An apparatus for cutting of a longitudinal member run external to a
2 tubular conduit in a well bore, said apparatus comprising:

3 a cutter body attachable to a tubular conduit in a fixed longitudinal position
4 relative to said tubular conduit;

5 a plurality of cutter knives slidably mounted to said cutter body, each said
6 cutter knife slidably abutting at least one surface on said cutter body,
7 said cutter knives being adapted to fasten to a longitudinal member
8 external to said tubular conduit, in a fixed longitudinal position relative
9 to said external longitudinal member; and

10 a cutting edge on each said cutter knife, each said cutting edge being oriented
11 toward said external longitudinal member, said cutting edges being
12 located on opposing sides of said external longitudinal member, said at
13 least one surface on said cutter body being oriented to force said
14 cutting edges toward each other, through said external longitudinal
15 member, upon lifting of said cutter body relative to said cutter knives.

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1 6. The apparatus recited in claim 5, further comprising a passage through
2 said cutter body located to position said external longitudinal member between said
3 cutting edges.

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1 7. The apparatus recited in claim 6, further comprising at least one said
2 passage through said cutter body located to position a plurality of said external
3 longitudinal members between said cutting edges.

1 8. A method for cutting of a longitudinal member run external to a
2 tubular conduit in a well bore, said method comprising:

3 attaching a cutter body to a tubular conduit being run into a well bore, said
4 cutter body being attached in a fixed longitudinal position relative to
5 said tubular conduit;

6 fastening at least one cutter knife to a longitudinal member being run into the
7 well bore external to said tubular conduit, said at least one cutter knife
8 being fastened in a fixed longitudinal position relative to said external
9 longitudinal member, said at least one cutter knife being slidably
10 mounted to said cutter body;

11 cutting said tubular conduit below said cutter body;

12 lifting said cutter body relative to said at least one cutter knife, by lifting said
13 tubular conduit; and

14 slidingly abutting at least one surface on said cutter body with said at least one
15 cutter knife to force said at least one cutter knife through said external
16 longitudinal member upon said lifting of said cutter body.

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1 9. The method recited in claim 8, further comprising:

2 fastening a plurality of said cutter knives to said external longitudinal member
3 on opposing sides of said external longitudinal member; and

4 slidingly abutting said at least one surface on said cutter body with said
5 plurality of cutter knives to force said plurality of cutter knives toward
6 each other through said external longitudinal member upon said lifting
7 of said cutter body.

1 10. The method recited in claim 8, further comprising:
2 fastening a plurality of said cutter knives to one said external longitudinal
3 member, said plurality of cutter knives being positioned on opposing
4 sides of a plurality of said external longitudinal members; and
5 slidingly abutting said at least one surface on said cutter body with said
6 plurality of cutter knives to force said plurality of cutter knives toward
7 each other through said plurality of external longitudinal members
8 upon said lifting of said cutter body.